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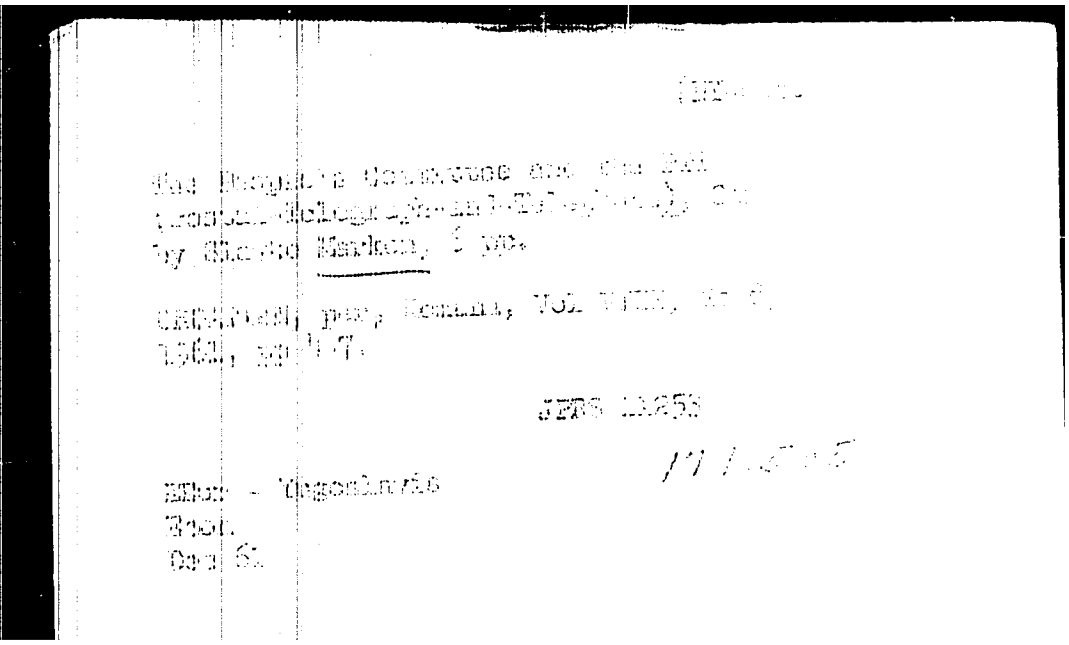

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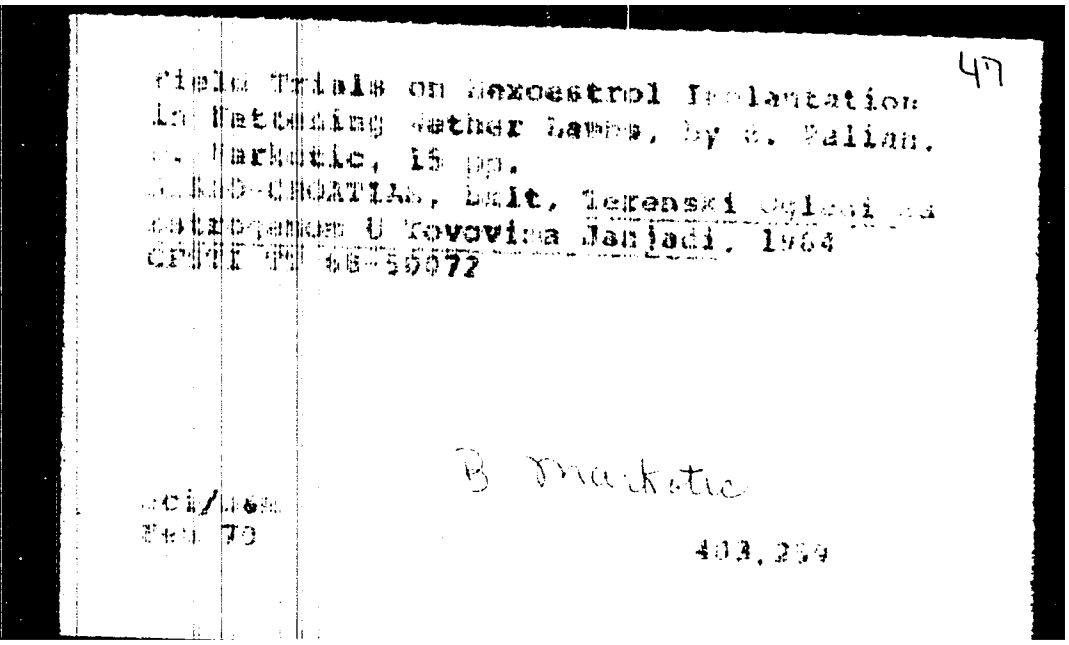

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Markov, A. A.
ON THE INVERSION COMPLEXITY OF A SYSTEM OF FUNCTIONS. [1960] 6p. 2 refs.
Order from LC or SLA mi$1.80, ph$1.80 61-10179

Trans. of A[kademiya] N[auk] SSSR. Doklady, 1957, v. 116, no. 6, p. 917-919.

The following equality is seen to hold for every Boolean function f: Inv(f) = pd(D(Alt(f))). Here Inv(f) denotes the inversion complexity of the function f, Alt(f) represents the variability of the function f, the binary dimension of a number r is denoted by D(r), and pd(r) is the natural number directly preceding r for r > 0.

(Mathematics, TT, v. 5, no. 2)

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1. Functions--Theory
1. Markov, A. A.

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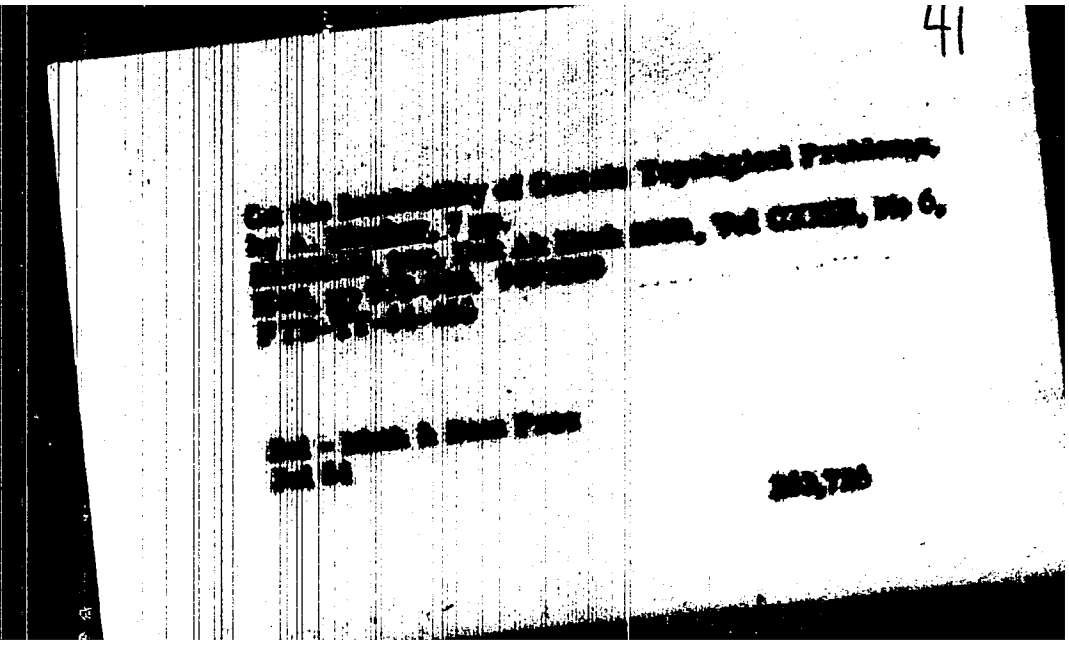

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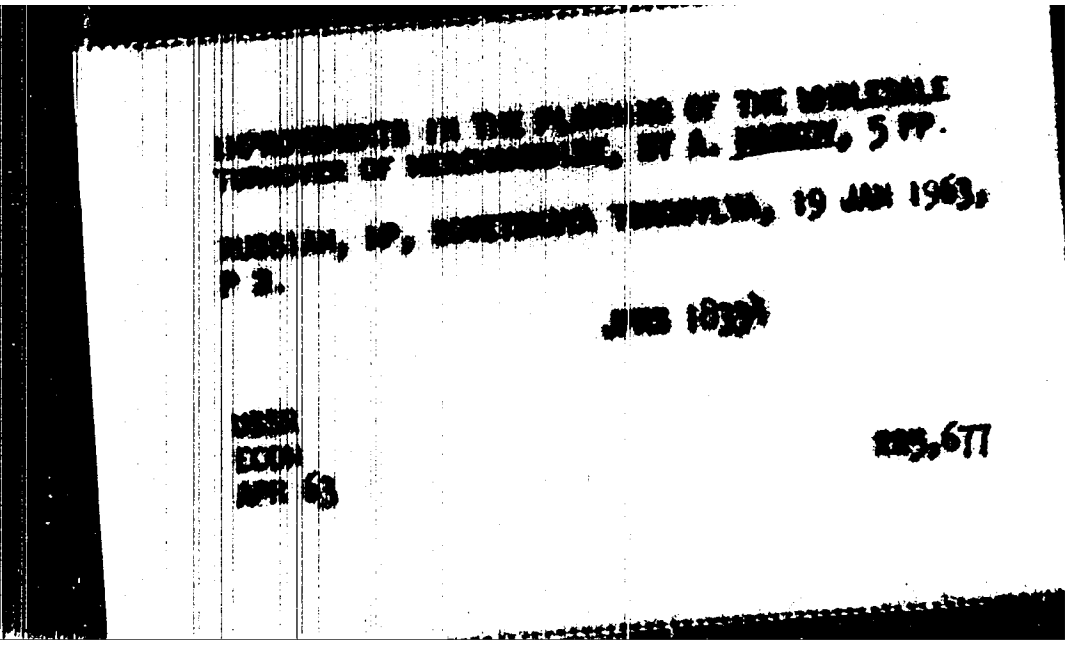

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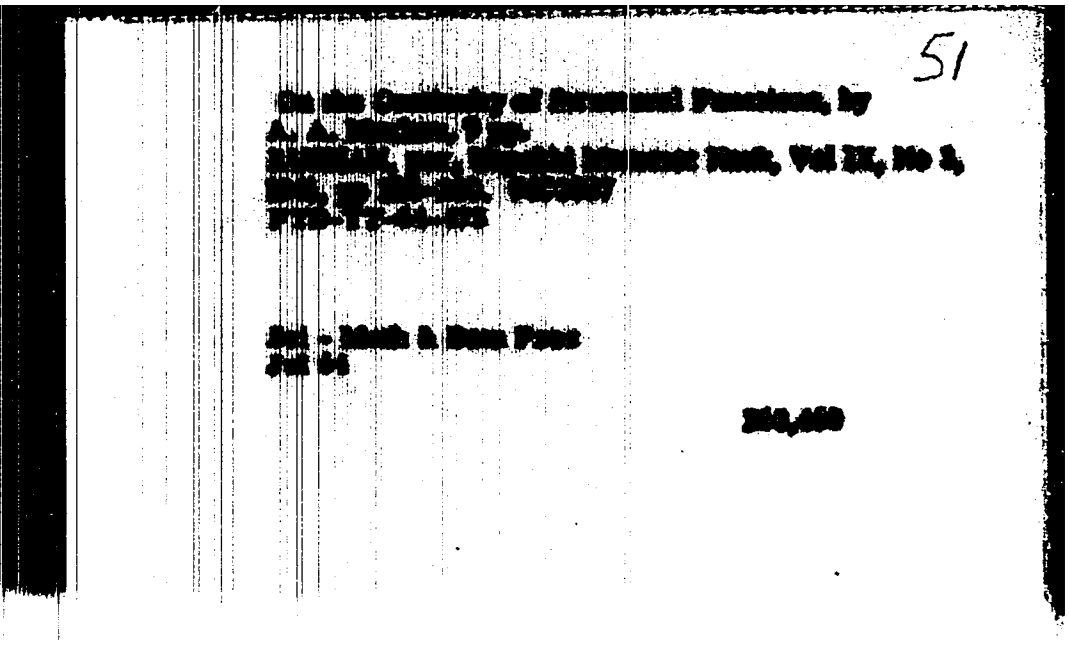

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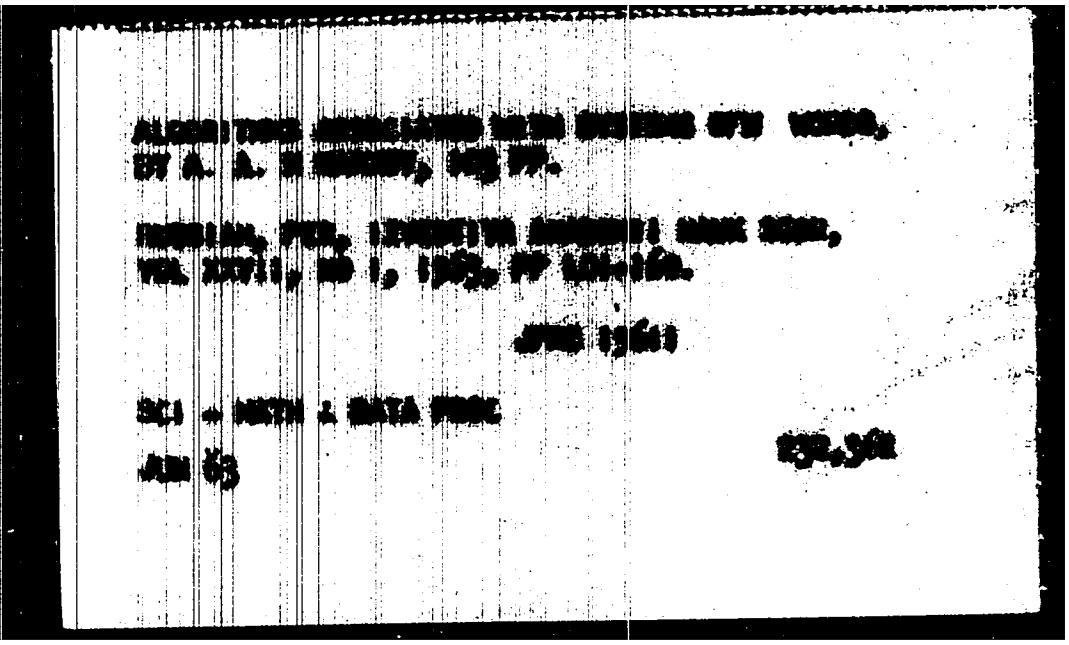

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Markov, A. A.
THE UNSOLVABILITY OF SEVERAL PROBLEMS EN MASSE. [1960] [42]p.
Order from I.C or SLA mi$3.30, ph$7.80 60-18689

Trans. of Russian mono. The Theory of Algorithms, n.p., n.d., chap. 6, p. 202-223.

Previous results (60-18688) make it possible to establish the unsolvability of a series of mathematical problems en masse. All these problems are treated as problems on the determination of normal algorithms which permit certain properties of the objects studied to be decided. A series of problems of this kind concerns the theory of associative calculi, i.e., the constructive theory of so-called associative systems. (Author) (See also 60-18690)

(Mathematics, TT, v. 5, no. 3)

60-18689

1. Mathematics--Theory
2. Mathematical logic
3. Title: Algorithms
I. Markov, A. A.

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Production of Neutral Mesons by High-Energy Nucleons, by M. S. Kozodayev, A. A. Tyapkin, Yu. D. Bayukov, A. A. Markov, Yu. D. Prokoshkin, 14 pp.

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Measurements of the Lifetime of Positive pi Mesons, by M. S. Kozodayev, A. A. Markov, A. A. Tyapkin, 5 pp.

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Markov, A. A.
THE THEORY OF ALGORITHMS; CHAP. 1. [1960]
[64]p.
Order from LC or SLA mi$3.90, ph$10.80 60-18685

Partial trans. (chap. 1, p. 1-48) of unidentified Russian mono., n.p., n.d.

Consideration is given to letters, alphabets, words, entries, and links and chains. (See also 60-18686)

(Mathematics, TT, v. 5, no. 3)

60-18685

1. Mathematics--Theory
2. Mathematical logic
3. Title: Algorithms
I. Markov, A. A.

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THE THEORY OF ALGORITHMS, CHAP. 2, SECTS. 1-4. [1960] [37]p.
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Partial trans. (chap. 2, p. 49-71) of unidentified Russian mono., n.p.,n.d.

This chapter is devoted to making the notion of algorithm more precise. Consideration is given to algorithms in the alphabets, normal algorithms, and examples of normal algorithms. (See also 60-18687)

(Mathematics, TT, v. 5, no. 3)

60-18686

1. Mathematics--Theory
2. Mathematical logic
3. Title: Algorithms
I. Markov, A. A.

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The combination of algorithms is considered.

(Mathematics, TT, v. 5, no. 3)

60-18687

1. Mathematics--Theory
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3. Title: Algorithms
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Contents:
Fundamental theorems on the nonexistence of algorithms
Self-applicable and non-self-applicable algorithms
The problem of deciding applicability
The problem of deciding annihilation
The problem of deciding completeness
(See also 60-18689)

(Mathematics, TT, v. 5, no. 3)

60-18688

1. Mathematics--Theory
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3. Title: Algorithms
I. Markov, A. A.

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See also 60-18684

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1. Mathematics--Theory
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DESCRIPTORS: Astronomy, *Moon, Motion, Structural properties, Physical properties, *Astronomical geodesics.

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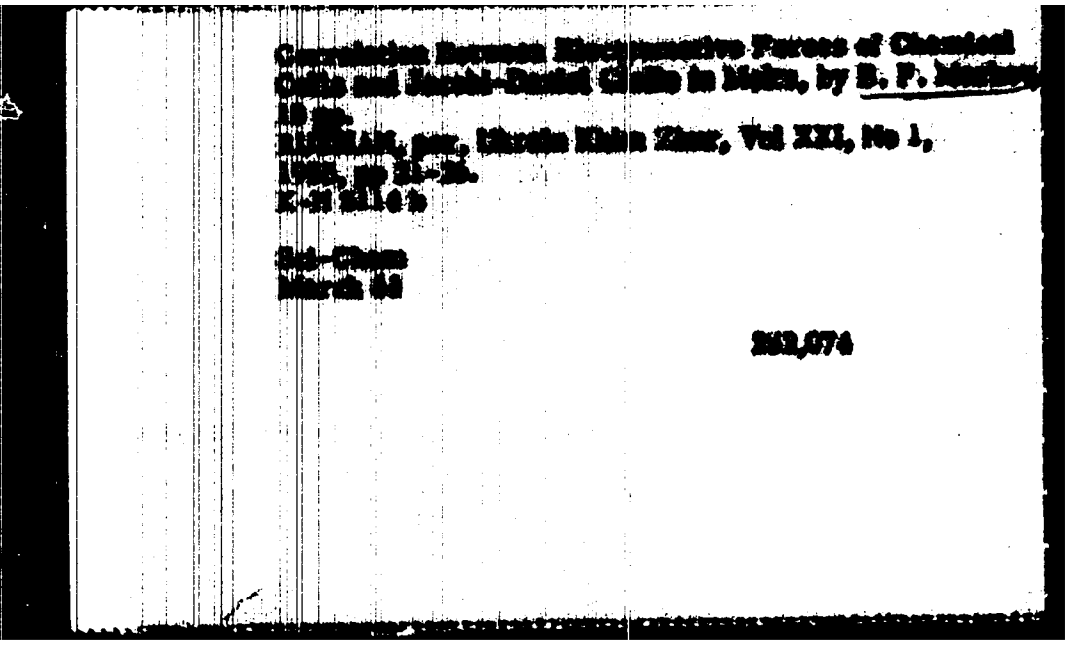

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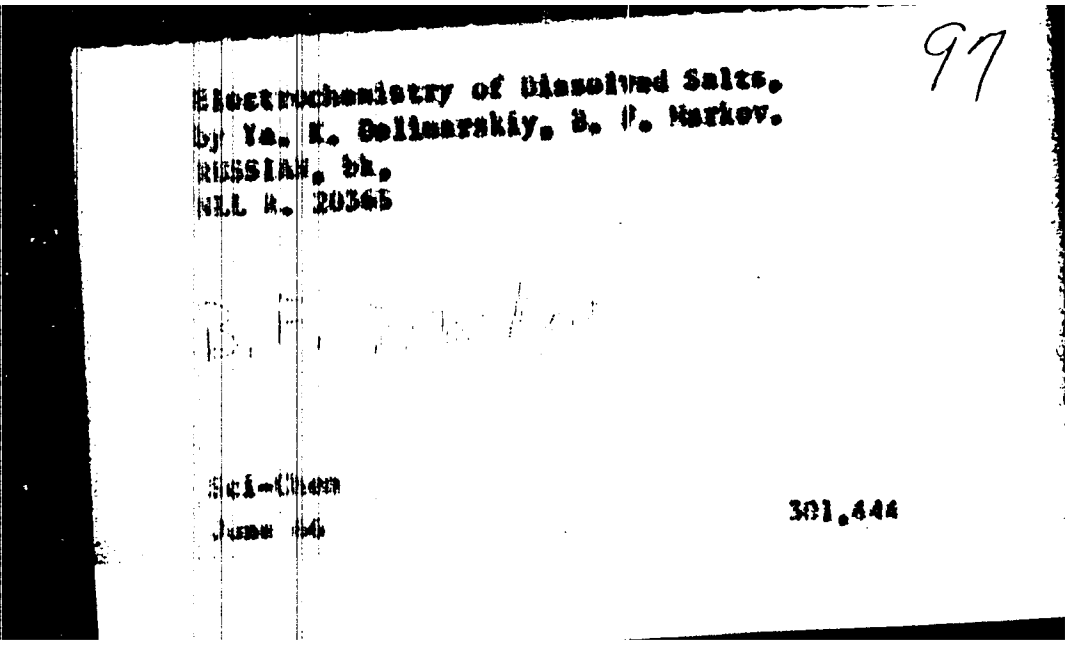

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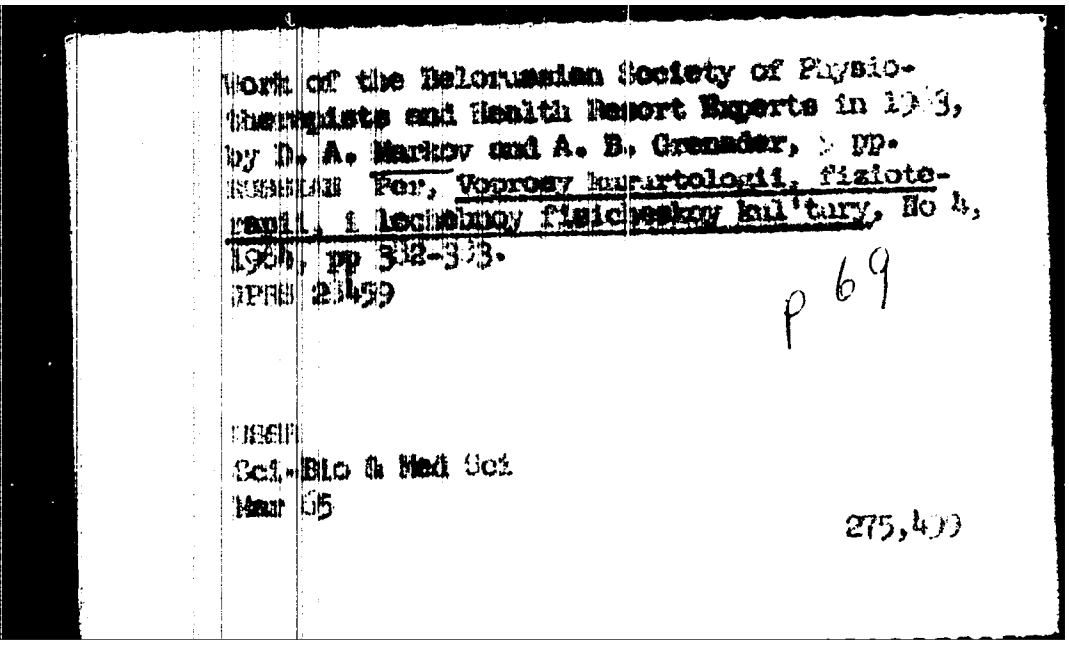

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GEOLOGY OF THE SOVIET ARCTIC, tr. by Kathleen Price and William A. Kneller. 1 Oct 63, 1155p
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Trans. of unidentified monog. [issued by] Gosudarstvennoe Nauchno-Tekhnicheskoe Izdatel'stvo Literatury po Geologii i Okhrane Nedr SSSR, Moscow, 1957.

DESCRIPTORS: *Geological survey, *Arctic regions, Geology.

(Earth Sciences--Geology, TT, v. 10, no. 12)

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